



7510-395-194

Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the preparation**HP LaserJet Print Cartridge
C4194A****Company Identification**

Hewlett-Packard Company
11311 Chinderl Boulevard
Boise, Idaho 83714
United States

**Emergency telephone number
Hewlett-Packard Health Effects Line**

1-800-457-4209 (USA and Canada)
Intl: +1-503-494-7199 (all other areas)
Singapore: +001-800-332-13321

General information telephone number

1-208-323-2551 (USA and Canada)
Intl: +1-208-323-2551 (all other areas)

Local Contact Information

Ireland
Liffey Park Technology Park
Barnhall Road Leixlip, Co.
Kildare, Ireland
Phone: 01 6150000
United Kingdom
Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1 HN
Phone: 1344 36-0000

Hazard Rating	US NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0.
Special	N/A

2.0 Composition/Information on Ingredients

This product is a yellow toner preparation that is used in Hewlett-Packard LaserJet 4500 and 4550 printers.

Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Styrene Acrylate Copolymer	-		60 - 80	-
Wax			5 - 15	
Polyester Resin			5 - 10	
Pigment			5 - 10	
Titanium Dioxide	13463-67-7	236-675-5	< 0.5	



7510-395-194

Material Safety Data Sheet

3.0 Hazards Identification

The preparation is not classified according to EU Directive 1999/45/EC

Routes of Exposure Inhalation, ingestion, skin and eyes.

Acute Health Hazards

Inhalation: Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.

Ingestion: Ingestion is not applicable route of entry for intended use.

Skin: Unlikely to cause skin irritation

Eyes: May cause eye irritation.

Chronic Health Hazards Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Carcinogenicity Refer to section 11

4.0 First Aid Measures

Inhalation: Move person to fresh air immediately. If symptoms occur, consult a physician.

Ingestion: Dilute stomach contents with several glasses of water. Get medical attention if symptoms persist.

Skin: Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

Eyes: Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. If irritation persists, consult a physician.

5.0 Fire Fighting Measures

Extinguishing media CO₂, water, dry chemical

Unsuitable Extinguishing Media None known

Special Firefighting Procedures None

Unusual fire and explosion hazards Toner material, like most organic material in powder form, is capable of creating a dust explosion.

Auto-ignition temperature No data available

Flashpoint (method) Not applicable

Hazardous Combustion Products Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide



7510-395-194

Material Safety Data Sheet

6.0 Accidental release measures

Spill or leak procedures Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust tight. Dispose of waste toner in accordance with local requirements.

Environmental precautions Do not discharge into drains (See also section 13 Disposal Considerations).

7.0 Handling and Storage

Advise on safe handling and protection against fire Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.

Requirements for storage rooms and advise on storage compatibility Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

8.0 Exposure control/ personal protection

Exposure Limit Values

USA OSHA (TWA/PEL): 15 mg/m³ (Total Dust)
5 mg/m³ (Respirable Fraction)
ACGIH (TWA/TLV): 10 mg/m³ (Inhalable Particulate)
3 mg/m³ (Respirable Particulate)
TRGS 900 (Luftgrenzwert): 10 mg/m³ (Einatembare Partikel)
3 mg/m³ (Alveolengangige Fraktion)

Exposure Controls

Respiratory protection Not required under intended use
Ventilation Good general ventilation should be sufficient under intended use

Protective gloves Not required under intended use

Eye protection Not required under intended use

Other protective equipment Not required under intended use

9.0 Physical and chemical properties

pH Not applicable

Boiling point Not applicable

Flash point Not applicable

Melting point 100 - 150°C (Softening Point)

Flammability Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and 84/449/EEC (Annex V) A.I.O)



7510-395-194

Material Safety Data Sheet

Explosive properties	Toner material, like most organic material in powder form, is capable of creating a dust explosion
Oxidizing properties	No data available
Vapor Pressure	Not applicable
Specific gravity (H₂O=1)	1.0 - 1.2
Solubility in water	Negligible
Solubility in organic solvents	Partially soluble in toluene and xylene
Partition coefficient	Not applicable
Viscosity	Not applicable
Vapor density	Not applicable
Evaporation rate	Not applicable
Physical state	Fine powder
Color	Yellow
Odor	Slight plastic odor
Other	None known

10.0 Stability and reactivity

Stability	Stable under normal storage conditions
Incompatibilities	Strong oxidizers
Hazardous decomposition products	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide
Hazardous polymerization	Will not occur

11.0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures

Acute Toxicity:

Inhalation:	LC ₅₀ :inh-rat->5mg/L/4 hrs. (data from similar toner), not harmful.
Ingestion:	LD ₅₀ :ori-rat >2000 mg/kg (data from similar toner), not harmful.
Eye Contact:	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC (data from similar toner).
Skin Contact:	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC (data from similar toner).

Chronic Toxicity: No data available

Sensitization:	Not classified as a sensitizer according to EU Directive 67/548/EEC and OSHA HCS (US).
Mutagenicity:	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium, data from similar toner)
Carcinogenicity:	Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California)



7510-395-194

Material Safety Data Sheet

Reproductive Toxicity: Titanium Dioxide: DFG pregnancy risk group C (no known risk of damage to embryo or fetus when MAK and BAT values are observed). Not classified as toxic according to Annex 1 of EU Directive 67/548/EEC or California Prop. 65.

Other: Sub-Acute Toxicity (Rat)- 90 day inhalation test, No Observable Effect Level (NOEL): 16 mg/m³. Expected air concentration levels under printing conditions are <0.01mg/m³.

12.0 Ecological Information

No data. available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

13.0 Disposal considerations

Product / unused product / contaminated packaging (for Germany only)
Recommendation: consult with the disposal agency and the relevant authorities:
cleansing agent is water.

14.0 Transportation information

Not a regulated article under DOT, IATA, ADR, or RID

UN Number None
Class None
Proper Shipping Name None
Packing Group None
Special Precautions None

15.0 Regulatory information

US EPA TSCA Inventory All ingredients are listed on TSCA inventory
US EPA TSCA 12(b) None
US California Proposition 65 None
EU Notification All components in this product are compliant with EU Chemical Inventory regulations.
EU R&S Phrase Information No European Risk Phrases (labeling data)
Dangerous Components None
(CAS No.) wt%
USA Labeling
Symbol Not required
Hazard Warning Not required
Safety Advice Not required
Hazardous Component(s) None



751 o-395-1 94

Material Safety Data Sheet

16.0 Other information

Date Prepared: August 1, 2002

HP-DMS Document Control 09000de78022da7d

Number:

Revision Information:

EU Information

This document replaces all prior versions of the MSDS

This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communications regulations (29CFR1910:1200)

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.